

FIG. 1

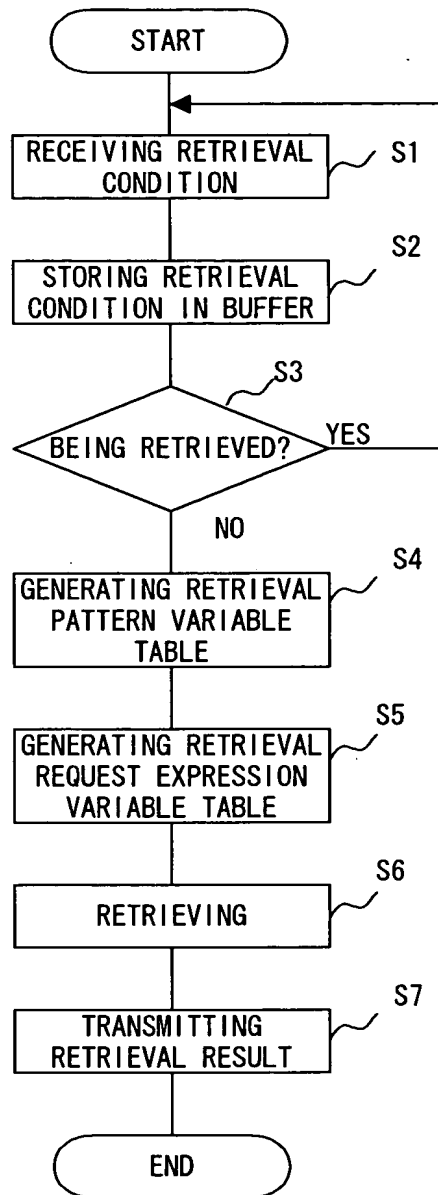


FIG. 2

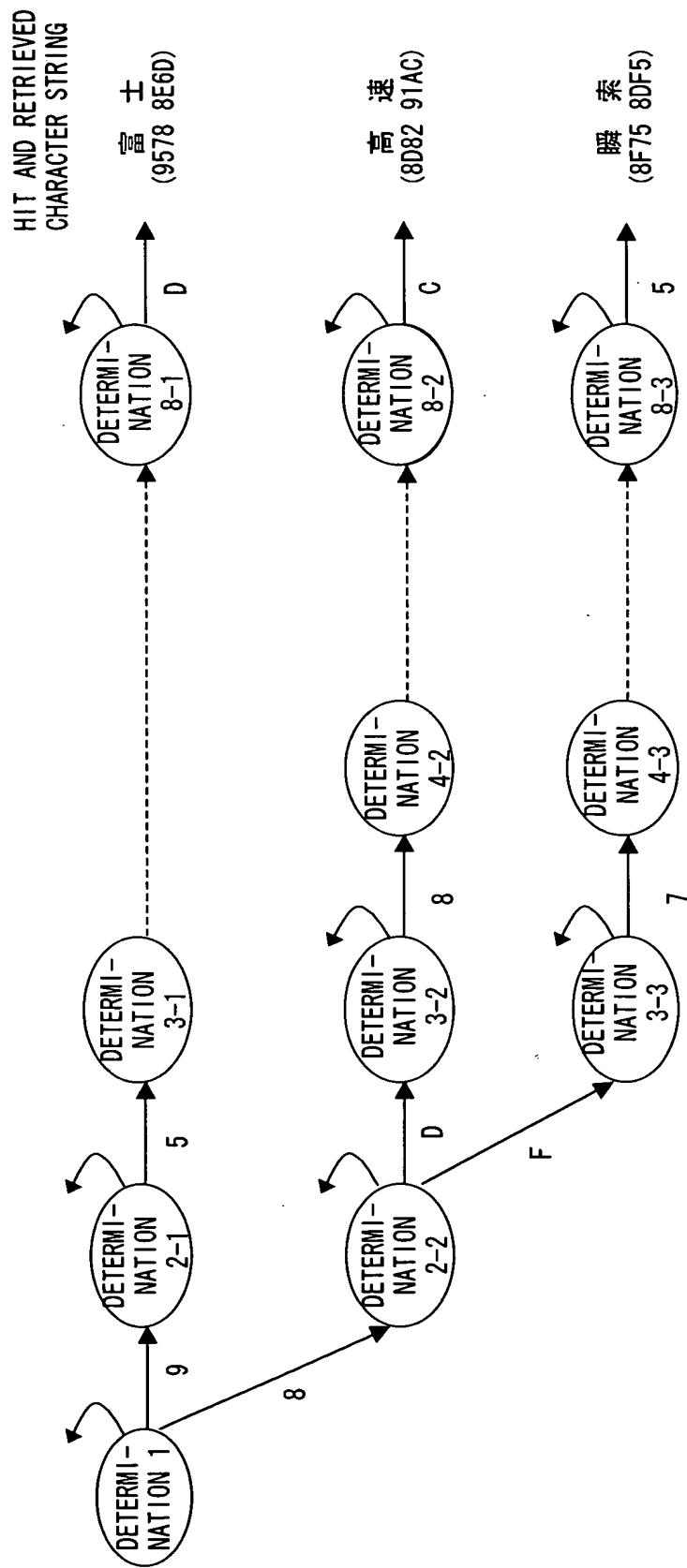


FIG. 3

DETERMINATION TARGET 4-BIT VALUE	NEXT DETERMINATION TABLE ADDRESS
0	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
1	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
2	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
3	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
4	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
5	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
6	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
7	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
8	DETERMINATION TABLE ADDRESS OF [DETERMINATION 2-2]
9	DETERMINATION TABLE ADDRESS OF [DETERMINATION 2-1]
10	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
11	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
12	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
13	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
14	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]
15	DETERMINATION TABLE ADDRESS OF [DETERMINATION 1]

FIG. 4

PATTERN = {ABCD, BCDE}

A	B	C	D	E	F	Z
3	2	1	0	4	4	4.....4	4

del_abcd

A	B	C	D	E	F	Z
4	3	2	1	0	4	4.....4	4

del_bcde

A	B	C	D	E	F	Z
3	2	1	L	L	4	4.....4	4

del_com

(L(large)=textlen+4+1)

FIG. 5A

PATTERN = {ABCD, BCDE, CDFE}

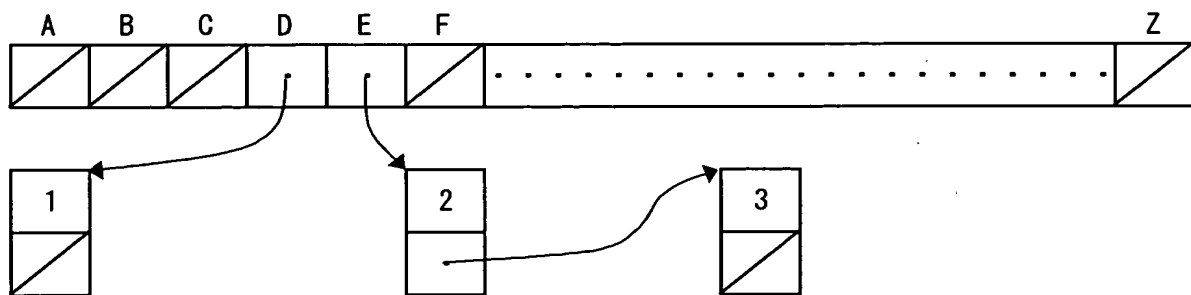


FIG. 5B

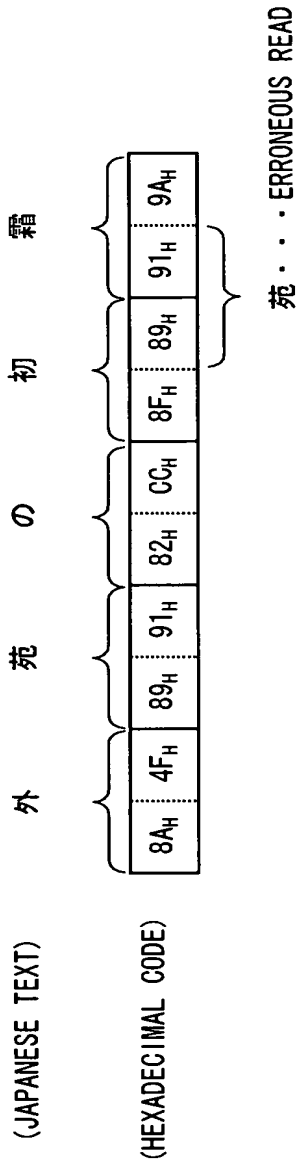


FIG. 6

0906035-120304

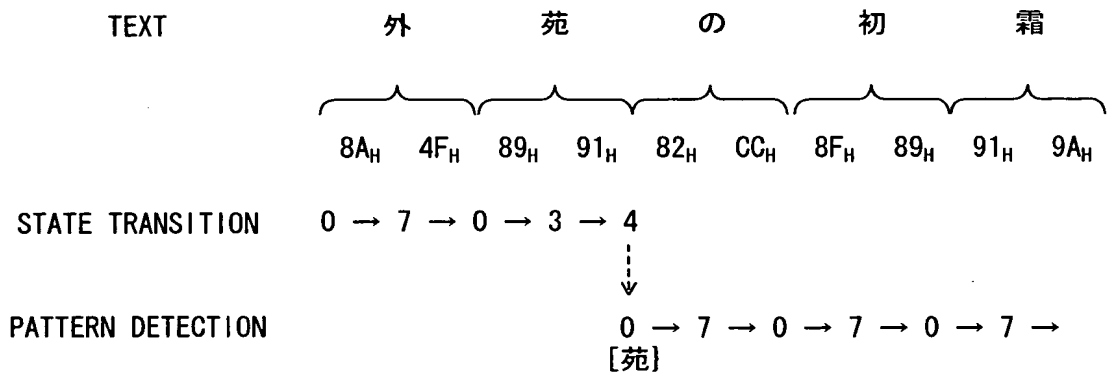


FIG. 8

The diagram illustrates a full-text retrieval system architecture. It features three 'RETRIEVAL REQUESTER' boxes on the left, a large 'FULL TEXT RETRIEVAL SYSTEM BY CHARACTER STRING COLLATING METHOD' box in the center, and a 'TEXT DATA TO BE SEARCHED' cylinder at the bottom. Arrows show the flow of data: 'RETRIEVAL REQUEST A', 'RETRIEVAL REQUEST B', and 'RETRIEVAL REQUEST C' all point from the requesters to the central system box. A single arrow points from the 'TEXT DATA TO BE SEARCHED' cylinder up to the central system box.

FIG. 9

CONTENTS OF TEXT DATA TO BE SEARCHED

[K]<NAME>MASATAKA MATSUURA[K]<GRADUATE OF>WASEDA UNIVERSITY[K]<BIRTH PLACE>KANAGAWA PREF. [K]<SEX>MALE[K] [R]
[K]<NAME>YOKO TABATA[K]<GRADUATE OF>TSUKUBA UNIVERSITY[K]<BIRTH PLACE>SHIKAWA PREF. [K]<SEX>FEMALE[K] [R]
[K]<NAME>SHIRO ABE[K]<GRADUATE OF>KYUSHU UNIVERSITY[K]<BIRTH PLACE>OITA PREF. [K]<SEX>MALE[K] [R]

(NOTE) [R]: RECORD DELIMITER, [K]: ITEM DELIMITER, <CHARACTER STRING>: ITEM IDENTIFIER CODE (ITEM TAG)

F I G. 1 0

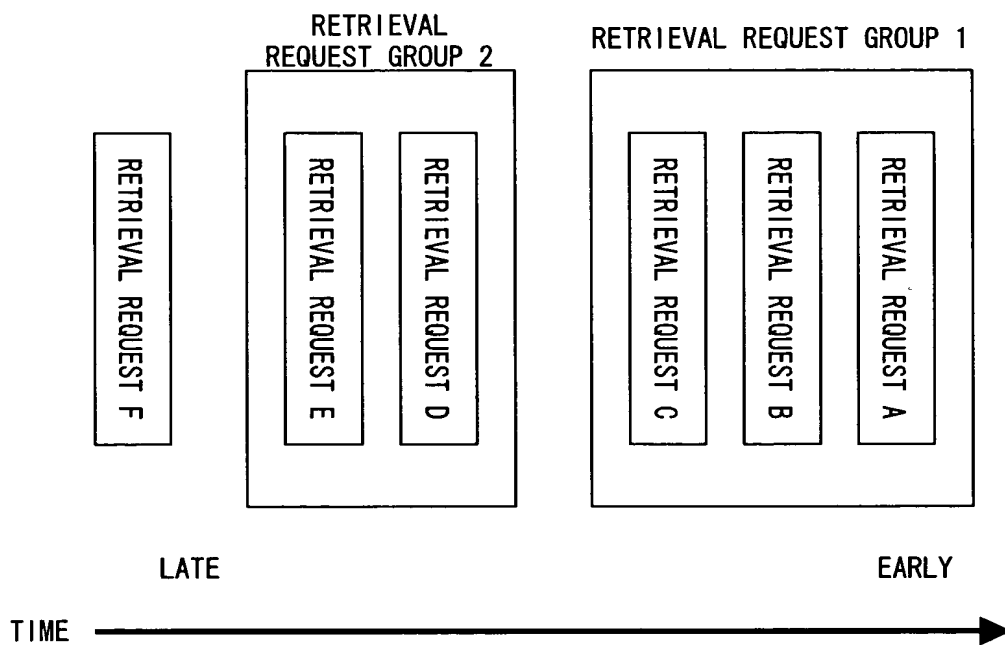
FIG. 11

RETRIEVAL REQUEST

	ITEM TAG	WORD TO BE RETRIEVED
A	<NAME>	MASATAKA MATSUURA
B	<GRADUATED FROM>	WASEDA UNIVERSITY
RETRIEVAL CONDITION EXPRESSION	A and B	

F I G. 1 1

09990000 120301



F I G. 1 2

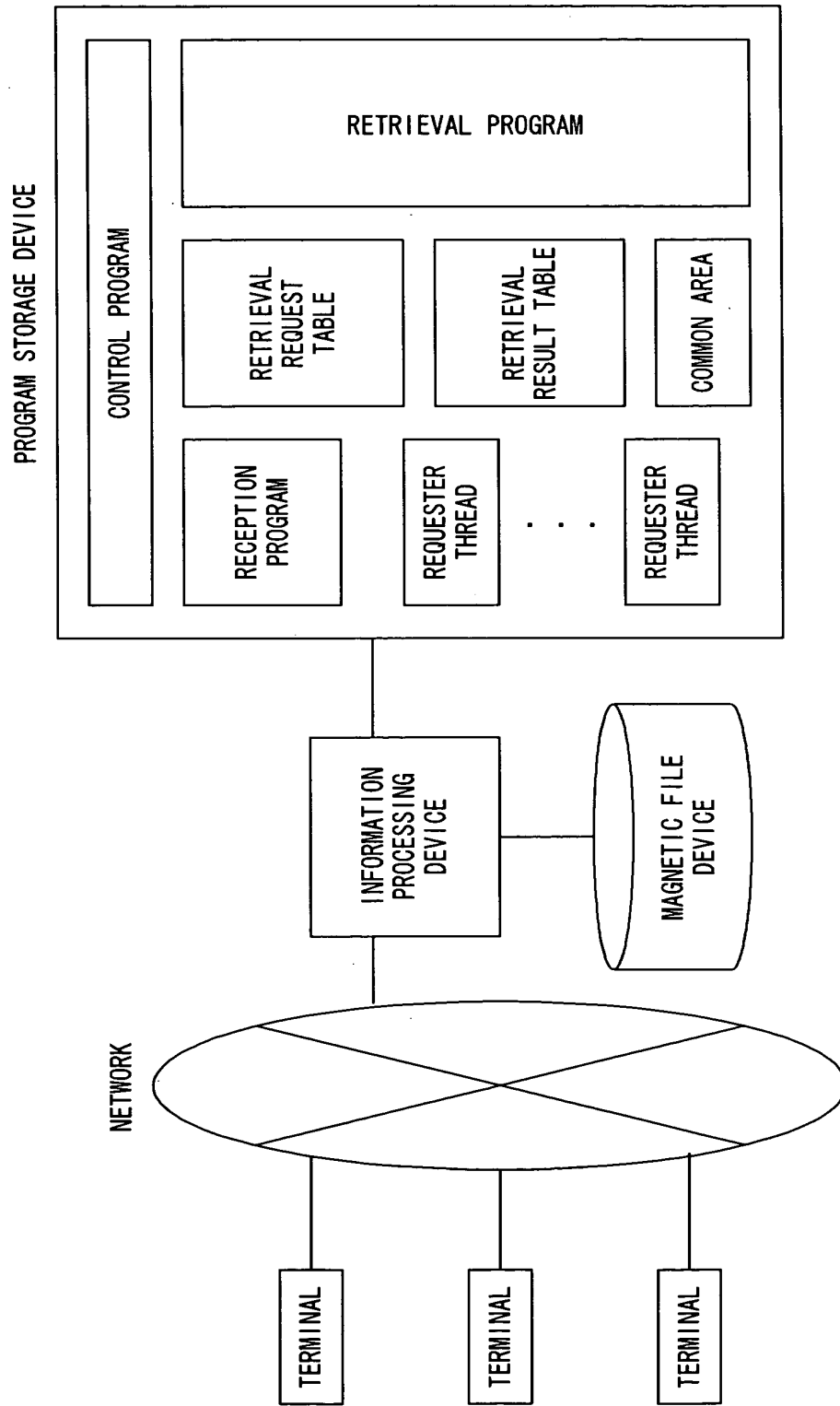


FIG. 13

FIG. 14

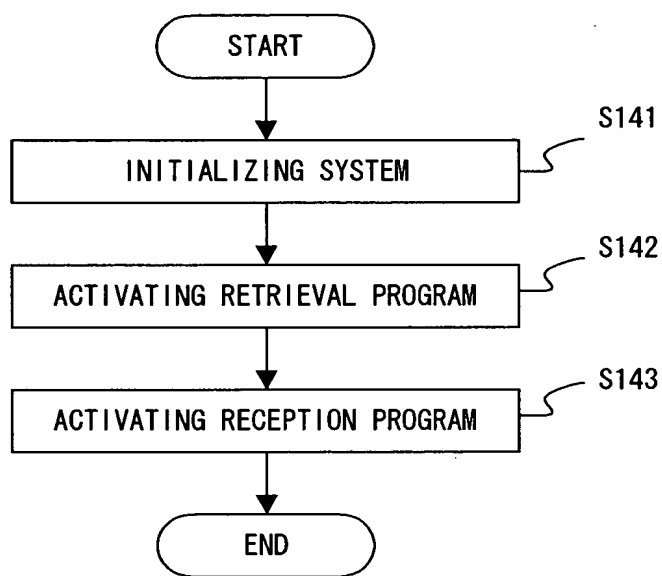


FIG. 14

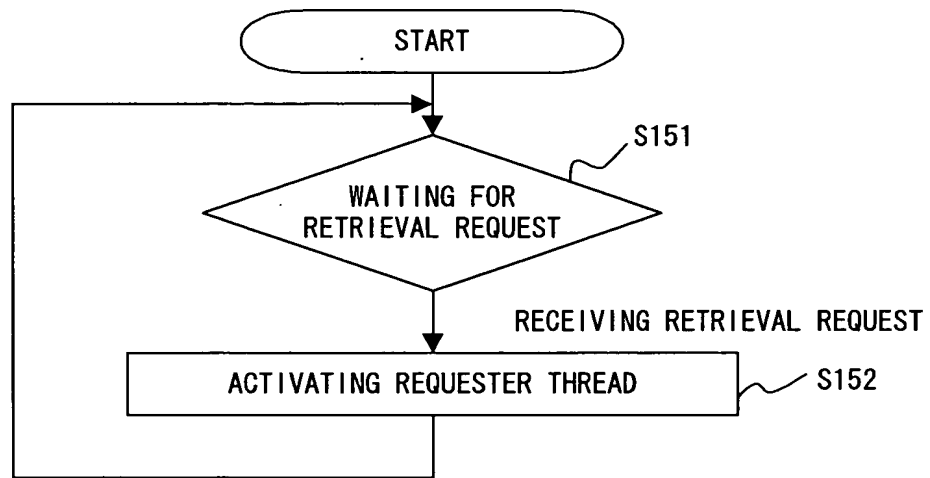


FIG. 15

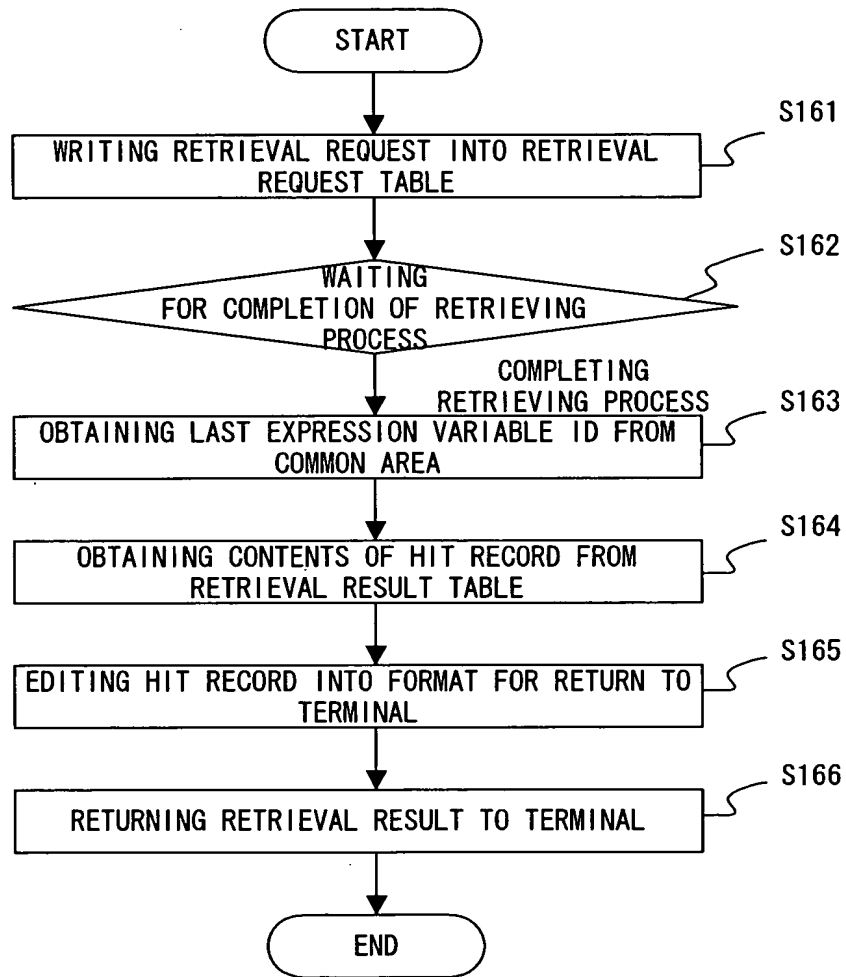


FIG. 16

RETRIEVAL REQUEST TABLE

	ITEM TAG	WORD TO BE RETRIEVED
A	<NAME>	MASATAKA MATSUURA
B	<GRADUATE FROM>	WASEDA UNIVERSITY
	RETRIEVAL CONDITION EXPRESSION	A and B
A	<GRADUATE FROM>	TSUKUBA UNIVERSITY
B	<BIRTH PLACE>	KANAGAWA PREF.
	RETRIEVAL CONDITION EXPRESSION	A or B
A	<SEX>	MALE
B	<BIRTH PLACE>	OITA PREF.
	RETRIEVAL CONDITION EXPRESSION	A and B

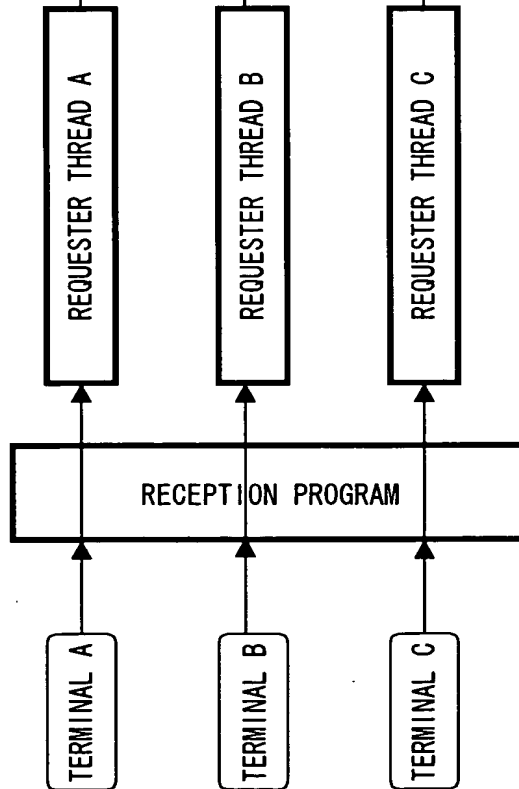


FIG. 17

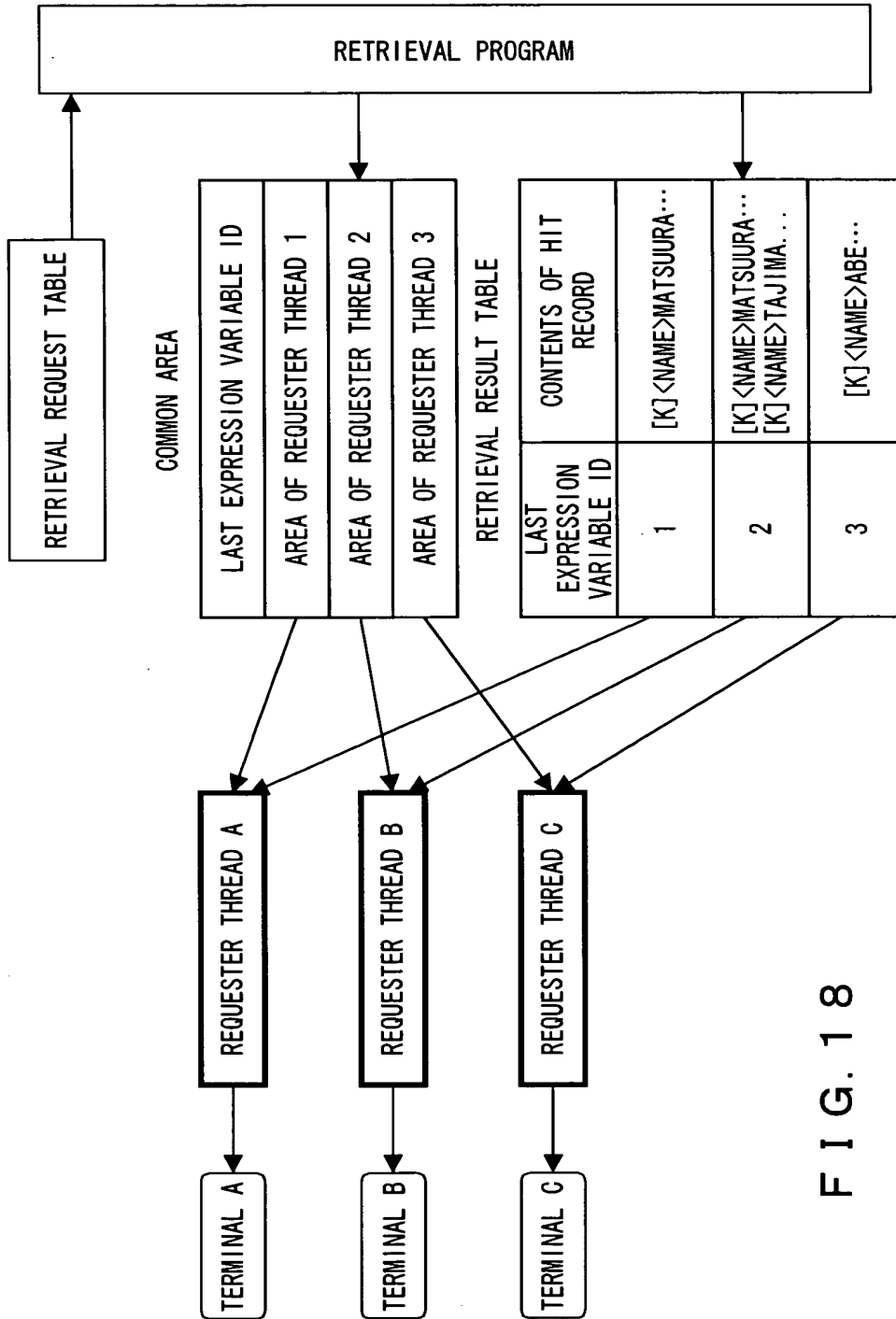
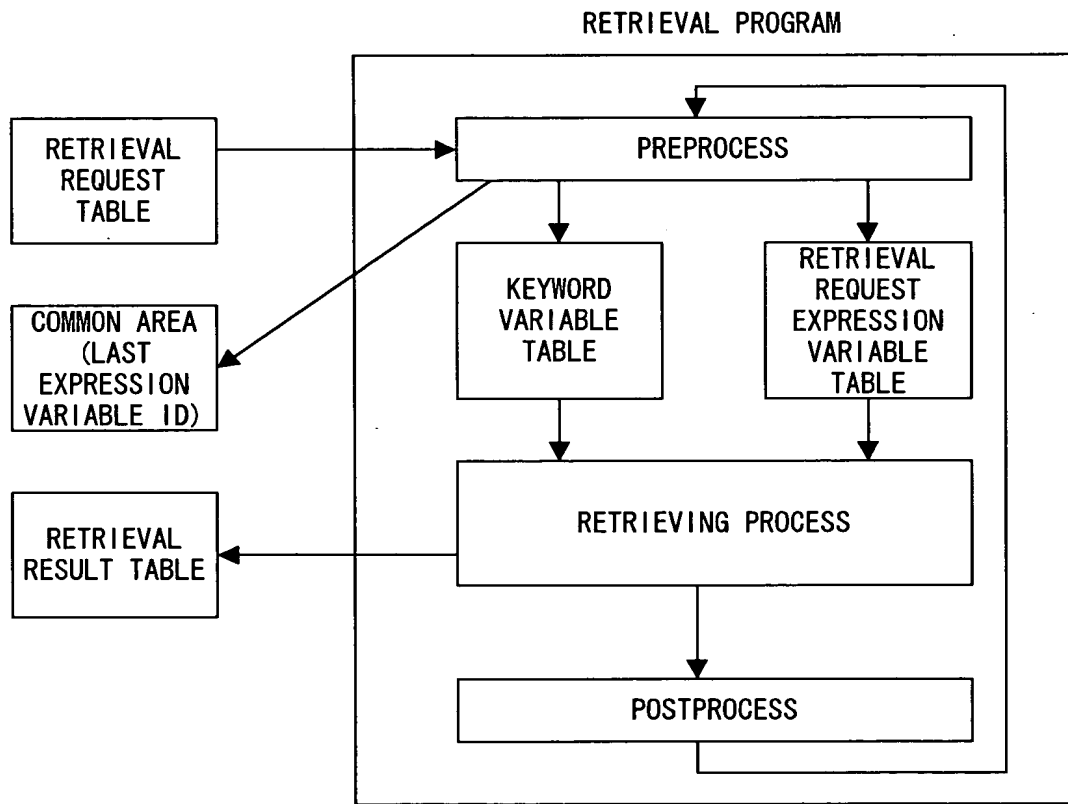


FIG. 18



F I G. 1 9

```
graph TD; START([START]) --> S201[PROHIBITING WRITING REQUESTER THREAD TO RETRIEVAL REQUEST TABLE]; S201 --> S202[GENERATING RETRIEVAL VARIABLE TABLE]; S202 --> S203[GENERATING RETRIEVAL REQUEST EXPRESSION VARIABLE TABLE]; S203 --> S204[WRITING LAST EXPRESSION VARIABLE ID INTO COMMON AREA]; S204 --> S205[DELETING CONTENTS OF RETRIEVAL REQUEST TABLE]; S205 --> S206[RELEASING PROHIBITION OF WRITING REQUESTER THREAD TO RETRIEVAL REQUEST TABLE]; S206 --> END([END]);
```

The flowchart illustrates the process for releasing prohibition of writing requester thread to retrieval request table. It begins with a START terminal, followed by a sequence of steps: S201 (PROHIBITING WRITING REQUESTER THREAD TO RETRIEVAL REQUEST TABLE), S202 (GENERATING RETRIEVAL VARIABLE TABLE), S203 (GENERATING RETRIEVAL REQUEST EXPRESSION VARIABLE TABLE), S204 (WRITING LAST EXPRESSION VARIABLE ID INTO COMMON AREA), S205 (DELETING CONTENTS OF RETRIEVAL REQUEST TABLE), and S206 (RELEASING PROHIBITION OF WRITING REQUESTER THREAD TO RETRIEVAL REQUEST TABLE). The process concludes with an END terminal.

FIG. 20

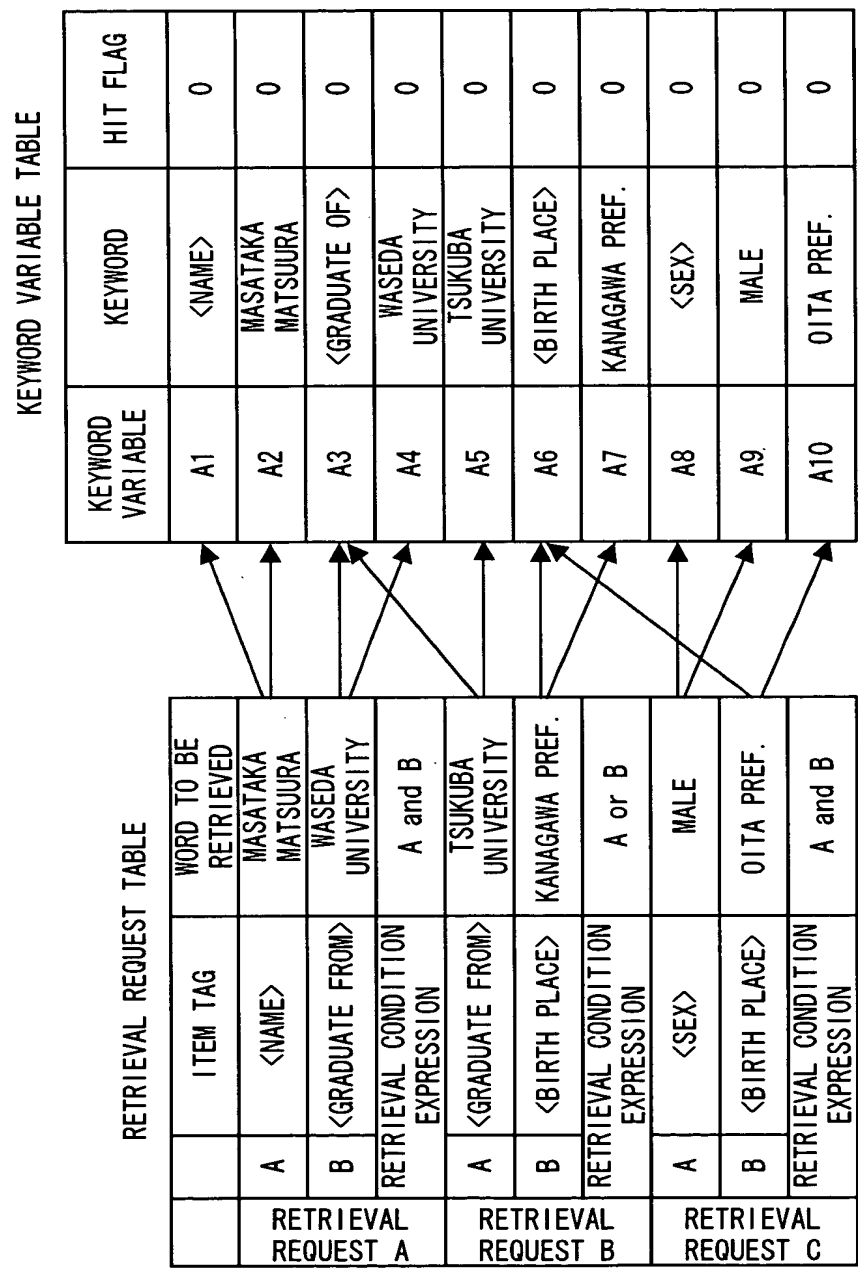


FIG. 21

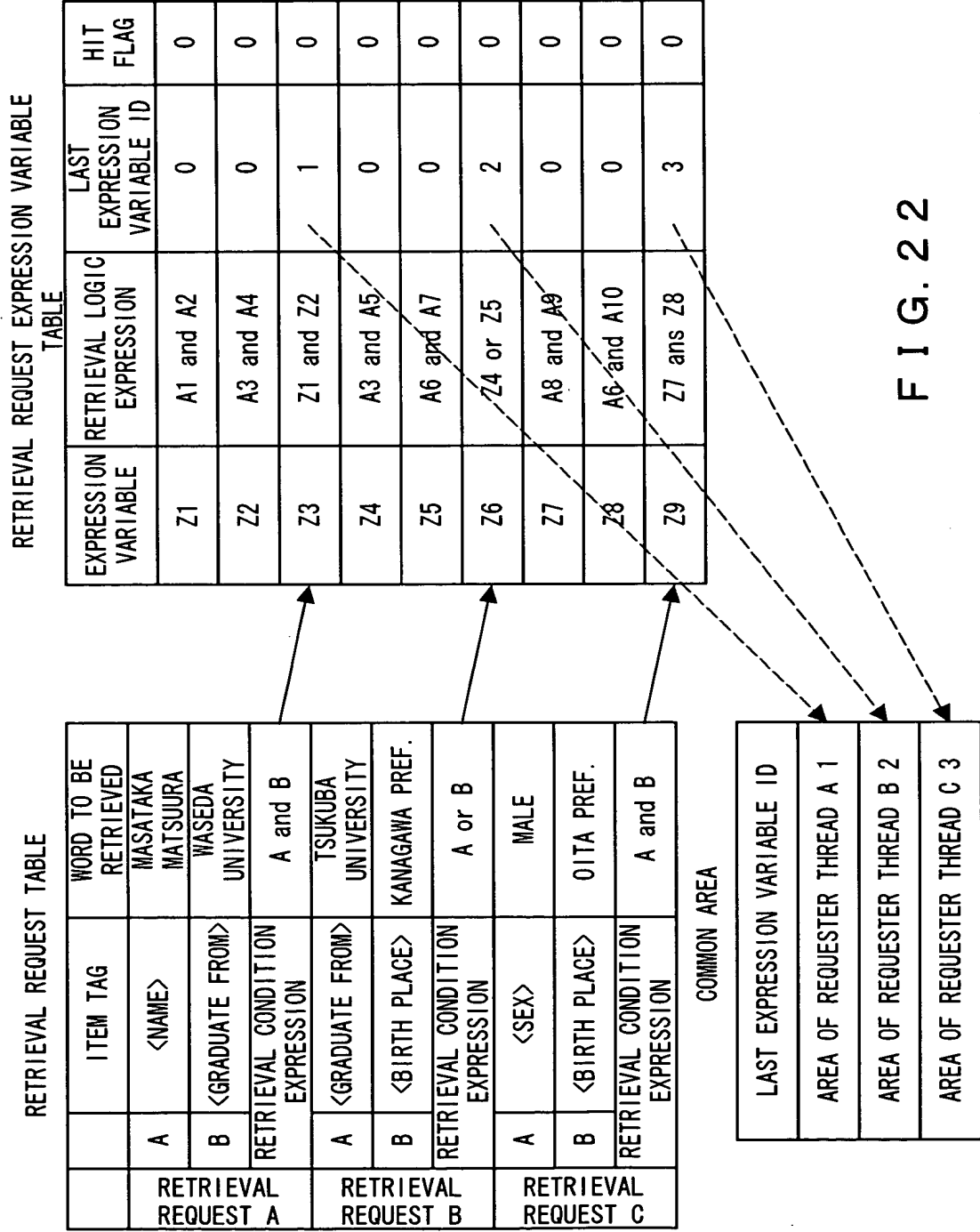


FIG. 22

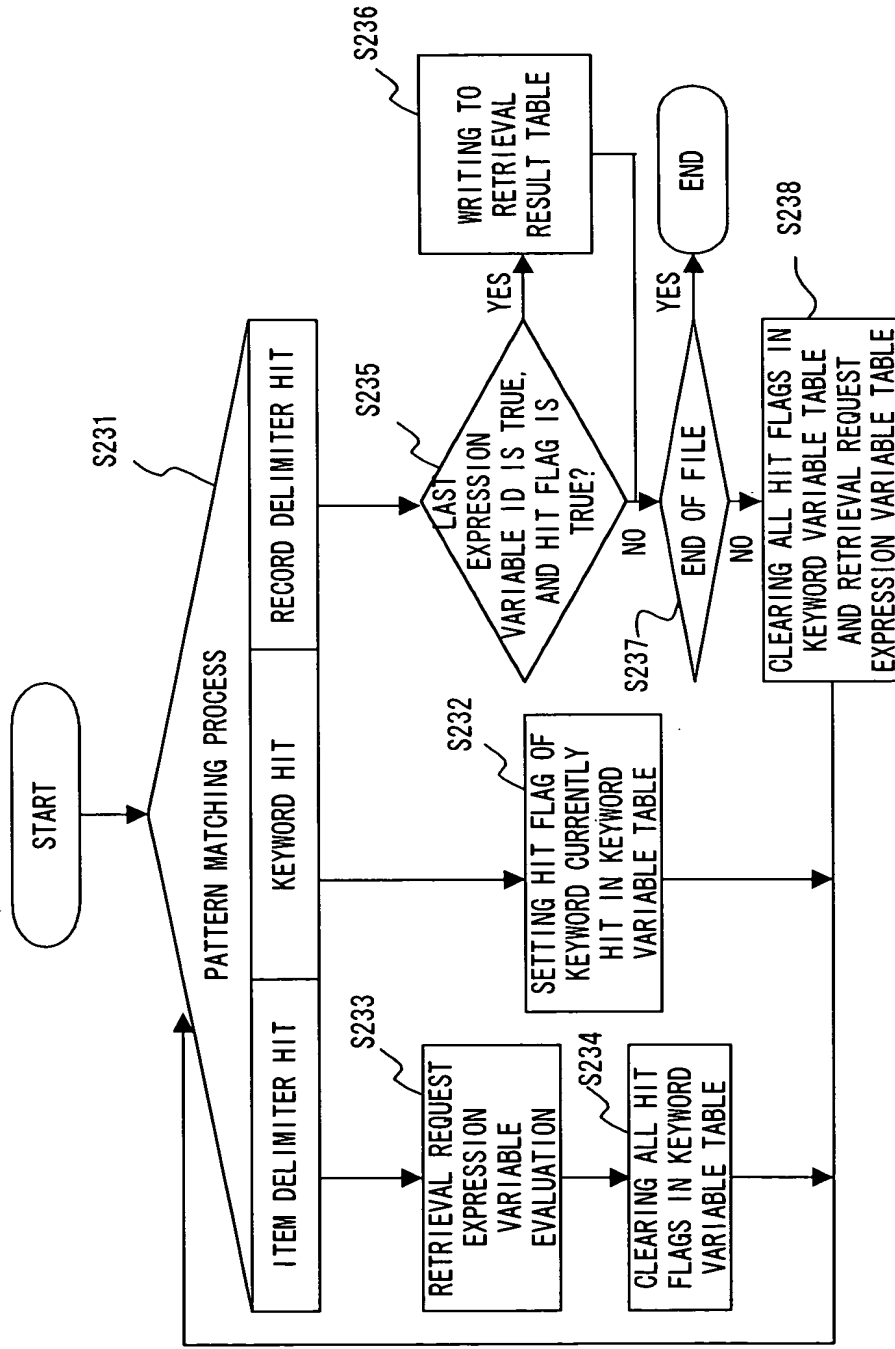


FIG. 23

KEYWORD VARIABLE TABLE

KEYWORD VARIABLE	CHARACTER STRING TO BE RETRIEVED	HIT FLAG
A1	<NAME>	1
A2	MASATAKA MATSUURA	1
A3	<GRADUATE OF>	0
A4	WASEDA UNIVERSITY	0
A5	TSUKUBA UNIVERSITY	0
A6	<BIRTH PLACE>	0
A7	KANAGAWA PREF.	0
A8	<SEX>	0
A9	MALE	0
A10	OITA PREF.	0

FIG. 24A

RETRIEVAL REQUEST EXPRESSION VARIABLE TABLE

EXPRESSION VARIABLE	LAST EXPRESSION VARIABLE ID	LAST EXPRESSION VARIABLE ID	HIT FLAG
Z1	A1 and A2	0	1
Z2	A3 and A4	0	1
Z3	Z1 and Z2	1	0
Z4	A3 and A5	0	0
Z5	A6 and A7	0	0
Z6	Z4 or Z5	2	0
Z7	A8 and A9	0	0
Z8	A6 and A10	0	0
Z9	Z7 and Z8	3	0

FIG. 24B

KEYWORD VARIABLE TABLE

KEYWORD VARIABLE	CHARACTER STRING TO BE RETRIEVED	HIT FLAG
A1	<NAME>	0
A2	MASATAKA MATSUURA	0
A3	<GRADUATE OF>	0
A4	WASEDA UNIVERSITY	0
A5	TSUKUBA UNIVERSITY	0
A6	<BIRTH PLACE>	0
A7	KANAGAWA PREF.	0
A8	<SEX>	1
A9	MALE	1
A10	OITA PREF.	0

FIG. 25A

RETRIEVAL REQUEST EXPRESSION VARIABLE TABLE

EXPRESSION VARIABLE	RETRIEVAL LOGIC EXPRESSION	LAST EXPRESSION VARIABLE ID	HIT FLAG
Z1	A1 and A2	0	1
Z2	A3 and A4	0	1
Z3	Z1 and Z2	1	1
Z4	A3 and A5	0	0
Z5	A6 and A7	0	1
Z6	Z4 or Z5	2	1
Z7	A8 and A9	0	1
Z8	A6 and A10	0	0
Z9	Z7 and Z8	3	0

FIG. 25B

099625-120304

RETRIEVAL RESULT TABLE

LAST EXPRESSION VARIABLE ID	CONTENTS OF HIT RECORD
1	[K]<NAME>MATSUURA...
2	[K]<NAME>MATSUURA...
3	

F I G. 2 6

FIG. 27

CONTENTS OF TEXT DATA TO BE SEARCHED ACCORINDG TO SECOND EMBODIMENT

...MASATAKA MATSUURA...WASEDA UNIVERSITY...KANAGAWA PREF.MALE [K] [R]
...YOKO TAJIMA...TSUKUBA UNIVERSITY...ISHIKAWA PREF.FEMALE [K] [R]
SHIRO ABE.....KYUSYU UNIVERSITY...OITA PREF.MALE [K] [R]

(NOTE) [R]:RECORD DELIMITER, [K]:ITEM DELIMITER

F I G. 2 7

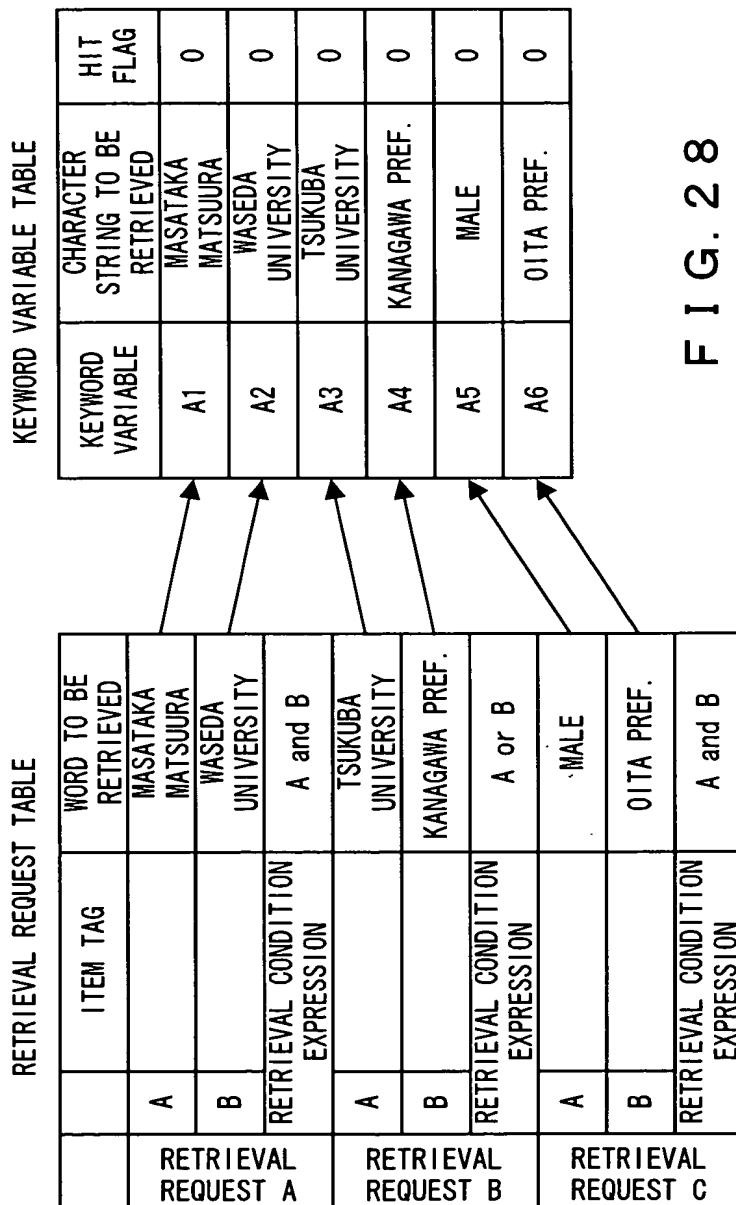


FIG. 28

RETRIEVAL REQUEST TABLE

	ITEM TAG	WORD TO BE RETRIEVED
RETRIEVAL REQUEST A	A	MASATAKA MATSUURA
	B	WASEDA UNIVERSITY
	RETRIEVAL CONDITION EXPRESSION	A and B
RETRIEVAL REQUEST B	A	TSUKUBA UNIVERSITY
	B	KANAGAWA PREF.
	RETRIEVAL CONDITION EXPRESSION	A or B
RETRIEVAL REQUEST C	A	MALE
	B	OITA PREF.
	RETRIEVAL CONDITION EXPRESSION	A and B

RETRIEVAL REQUEST EXPRESSION VARIABLE TABLE

EXPRESSION VARIABLE	RETRIEVAL LOGIC EXPRESSION	LAST EXPRESSION VARIABLE ID	HIT FLAG
Z1	A1 and A2	1	0
Z2	A3 or A4	2	0
Z3	A5 and A6	3	0

F I G . 2 9

KEYWORD VARIABLE TABLE

KEYWORD VARIABLE	CHARACTER STRING TO BE RETRIEVED	HIT FLAG
A1	MASATAKA MATSUURA	1
A2	WASEDA UNIVERSITY	1
A3	TSUKUBA UNIVERSITY	0
A4	KANAGAWA PREF.	1
A5	MALE	1
A6	OITA PREF.	0

FIG. 30A

RETRIEVAL REQUEST EXPRESSION VARIABLE TABLE

EXPRESSION VARIABLE	RETRIEVAL LOGIC EXPRESSION	LAST EXPRESSION VARIABLE ID	HIT FLAG
Z1	A1 and A2	1	1
Z2	A3 or A4	2	1
Z3	A5 and A6	3	0

FIG. 30B

0909225-10004
FOOT" 5225650

RETRIEVAL RESULT TABLE

LAST EXPRESSION VARIABLE ID	CONTENTS OF HIT RECORD
1	MASATAKA MATSUURA... ..
2	MASATAKA MATSUURA... ..
3	

F I G. 3 1

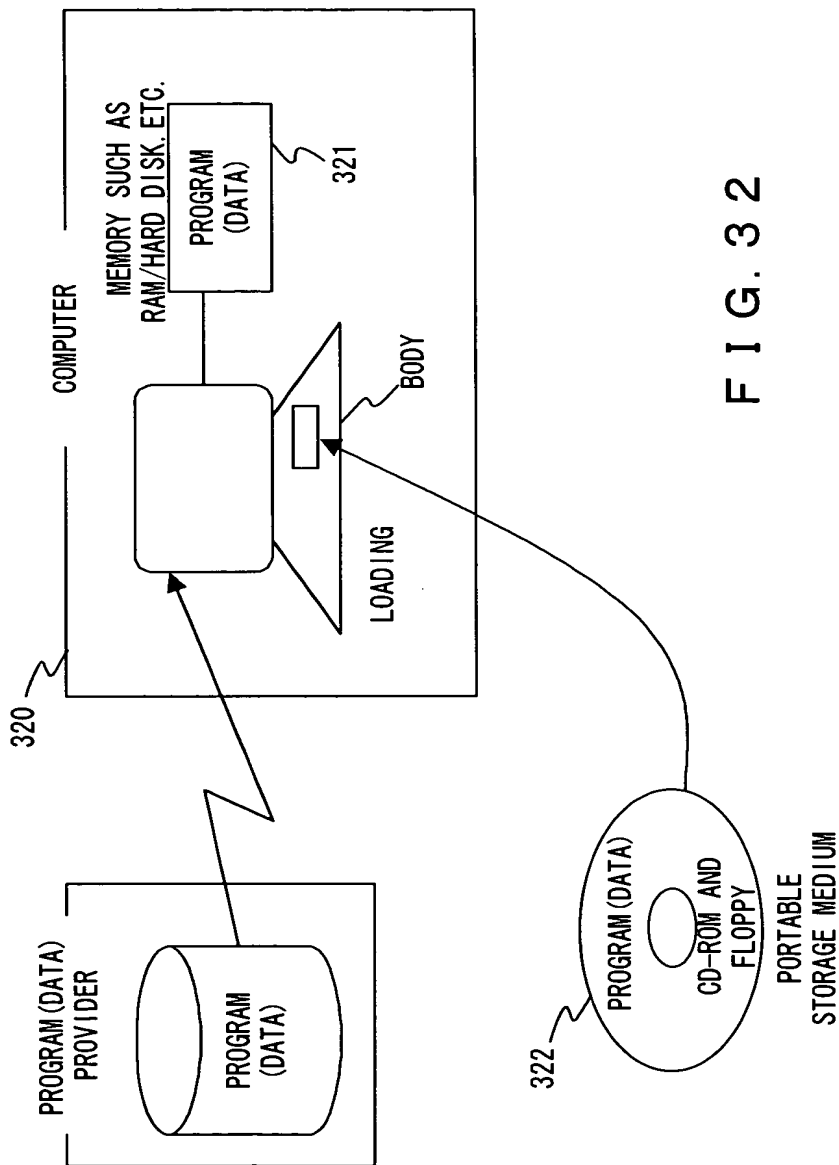


FIG. 32